

COURSE DETAIL

SIGNALS AND SYSTEMS I

Country

South Africa

Host Institution

University of Cape Town

Program(s)

University of Cape Town

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Electrical Engineering

UCEAP Course Number

115

UCEAP Course Suffix**UCEAP Official Title**

SIGNALS AND SYSTEMS I

UCEAP Transcript Title

SIGNALS & SYSTEMS I

UCEAP Quarter Units

5.50

UCEAP Semester Units

3.70

Course Description

This course provides the basic tools required for understanding linear systems, and the effect that such systems have on deterministic signals. The course covers linear time-invariant systems in terms of input-output relationships, using both time and frequency domain methods and includes concepts related to signal representation, linear convolution, Fourier analysis, sampling of continuous-time signals, and Laplace transforms.

Language(s) of Instruction

English

Host Institution Course Number

EEE2047S

Host Institution Course Title

SIGNALS AND SYSTEMS I

Host Institution Course Details

<https://www.uct.ac.za/sites/default/files/media/documents/uct-handbook-07a-2025...>

Host Institution Campus

University of Cape Town

Host Institution Faculty

Engineering and the Built Environment

Host Institution Degree

Host Institution Department

Electrical Engineering

Course Last Reviewed

2025-2026

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